

PTO/SB/08A (04-03)

Approved for use through 04/30/2003. OMB 0651-0031  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

**(Use as many sheets as necessary)**

**Complete if Known**

Application Number	10/710,638
Filing Date	7/27/2004
First Named Inventor	Hall, et al.
Art Unit	2122
Examiner Name	
Attorney Docket Number	66.0055

Sheet	1	of	4
-------	---	----	---

## U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
TE		US- 6,392,317 B1	5/21/2002	Hall, David R., et al	
		US- 6,670,880 B1	12/30/2003	Hall, David R., et al	
		US- 6,717,501 B2	4/6/2004	Hall, David R., et al	
		US- 6,888,473 B1	5/3/2005	Hall, David R., et al	
		US- 6,799,632 B2	10/5/2004	Hall, David R., et al	
		US- 6,844,498 B2	1/18/2005	Hall, David R., et al	
		US- 6,830,467 B2	12/14/2004	Hall, David R., et al	
		US- 6,913,093 B2	7/5/2005	Hall, David R., et al	
		US- 6,821,147 B1	11/23/2004	Hall, David R., et al	
		US- 6,929,493 B2	8/16/2005	Hall, David R., et al	
		US- 6,945,802 B2	9/20/2005	Hall, David R., et al	
		US- 20050236160 A1	10/27/2005	Hall, David R., et al	
		US- 20050212530 A1	9/29/2005	Hall, David R., et al	
		US- 20050173128 A1	8/11/2005	Hall, David R., et al	
		US- 20050161215 A1	7/28/2005	Hall, David R., et al	
		US- 20050150653 A1	7/14/2005	Hall, David R., et al	
		US- 20050145406 A1	7/7/2005	Hall, David R., et al	
		US- 20050115717 A1	7/2/2005	Hall, David R., et al	
TE		US- 20050001735 A1	1/6/2005	Hall, David R., et al.	

## FOREIGN PATENT DOCUMENTS

[illegible]

Examiner Signature		Date Considered	
-----------------------	--	--------------------	--

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.<sup>1</sup> Applicant's unique citation designation number (optional).<sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04.<sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3).<sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.<sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible.<sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

**If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.**

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

**(Use as many sheets as necessary)**

Sheet

**2**

of

4

**Complete if Known**

Application Number	10/710.638
--------------------	------------

Filing Date	7/27/2004
-------------	-----------

First Named Inventor	Hall, et al.
----------------------	--------------

Art Unit	2122
----------	------

**Examiner Name**

Attorney Docket Number	66.0055
------------------------	---------

## U. S. PATENT DOCUMENTS

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2 (if known)</sup>			
TE		US- 20050095827 A1	5/5/2005	Hall, David R., et al	
		US- 20050093296 A1	5/5/2005	Hall, David R., et al	
		US- 20050092499 A1	5/5/2005	Hall, David R., et al	
		US- 20050082092 A1	4/21/2005	Hall, David R., et al	
		US- 20050001736A1	1/6/2005	Hall, David R., et al	
		US- 20050070144 A1	3/31/2005	Hall, David R., et al	
		US- 20050067159 A1	3/31/2005	Hall, David R., et al	
		US- 20050046590 A1	3/3/2005	Hall, David R., et al	
		US- 20050046586 A1	3/3/2005	Hall, David R., et al	
		US- 20050045339 A1	3/3/2005	Hall, David R., et al	
		US- 20050039912 A1	2/24/2005	Hall, David R., et al	
		US- 20050036507 A1	2/17/2005	Hall, David R., et al	
		US- 20050035876 A1	2/17/2005	Hall, David R., et al	
		US- 20050035875 A1	2/17/2005	Hall, David R., et al	
		US- 20050035874 A1	2/17/2005	Hall, David R., et al	
TE		US- 20050001738 A1	1/6/2005	Hall, David R., et al	
		US- 20040246142 A1	12/9/2004	Hall, David R., et al	
		US- 20040244964A1	12/9/2004	Hall, David R., et al	
		US- 20040244916A1	12/9/2004	Hall, David R., et al	

## FOREIGN PATENT DOCUMENTS

[illegible]

Examiner Signature	Date Considered
-----------------------	--------------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

**If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.**

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet

3

of

4

**Complete if Known**

Application Number	10/710,638
Filing Date	7/27/2004
First Named Inventor	Hall, et al.
Art Unit	2122
Examiner Name	
Attorney Docket Number	66.0055

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number-Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
TE		US- 20040216847 A1	11/4/2004	Hall, David R., et al	
		US- 20040164838 A1	8/26/2004	Hall, David R., et al	
		US- 20040164833 A1	8/26/2004	Hall, David R., et al	
		US- 20040150532 A1	8/5/2004	Hall, David R., et al	
		US- 20040145492 A1	7/29/2004	Hall, David R., et al	
		US- 20040113808 A1	6/17/2004	Hall, David R., et al	
		US- 20040104797 A1	6/3/2004	Hall, David R., et al	
		US- 4,739,325	4/19/1988	MacLeod	
		US- 6,012,015	1/4/2000	Tubel	
		US- 6,252,518 B1	6/26/2001	Laborde	
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear
		WO 03/101047	12/04/2003	Baker Hughes Inc	

Examiner Signature	Date Considered
--------------------	-----------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

**Complete if Known**

Application Number	10/710,638
Filing Date	7/27/2004
First Named Inventor	Hall, et al.
Art Unit	2122
Examiner Name	
Attorney Docket Number	66.0055

Sheet

4

of

4

**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
TE		WO 03/101047A2, Published 12/04/2003, Applicant Baker Hughes; International Search Report: "Documents Considered to Be Relevant"	

Examiner  
Signature

/Timothy Edwards Jr/

Date  
Considered

02/27/2007

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 120 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.